

DRAFT REVISION—January 21, 1998

HABITAT ASSESSMENT FIELD DATA SHEET—LOW GRADIENT STREAMS (FRONT)

STREAM NAME Little Salt Creek	LOCATION NW 12 th Rd., N. of Raymond Rd.	RAYMOND	downstream of bridge
STATION # 001-R1 RIVERMILE	STREAM CLASS		
LAT 40°52'07.6" LONG 96°44'30.9"	RIVER BASIN		
STORET #	AGENCY		
INVESTIGATORS Ryan Unterreiner, Ed Harricks			
FORM COMPLETED BY RU	DATE 9/17/00	TIME 8:30 AM	REASON FOR SURVEY Base Condition

Habitat Parameter	Condition Category							
	Optimal	Suboptimal	Marginal	Poor				
1. Epifaunal Substrate/ Available Cover	Greater than 50% of substrate favorable for epifaunal colonization and fish cover; mix of snags, submerged logs, undercut banks, cobble or other stable habitat and at stage to allow full colonization potential (i.e., logs/snags that are not new fall and not transient).	30-50% mix of stable habitat; well-suited for full colonization potential; adequate habitat for maintenance of populations; presence of additional substrate in the form of newfall, but not yet prepared for colonization (may rate at high end of scale).	10-30% mix of stable habitat; habitat availability less than desirable; substrate frequently disturbed or removed.	Less than 10% stable habitat; lack of habitat is obvious; substrate unstable or lacking.				
SCORE	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1 0				
2. Pool Substrate Characterization <i>soft substrate</i>	Mixture of substrate materials, with gravel and firm sand prevalent; root mats and submerged vegetation common.	Mixture of soft sand, mud, or clay; mud may be dominant; some root mats and submerged vegetation present.	All mud or clay or sand bottom; little or no root mat; no submerged vegetation.	Hardpan clay or bedrock; no root mat or vegetation.				
SCORE	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1 0				
3. Pool Variability	Even mix of large-shallow, large-deep, small-shallow, small-deep pools present.	Majority of pools large-deep; very few shallow.	Shallow pools much more prevalent than deep pools.	Majority of pools small-shallow or pools absent.				
SCORE	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1 0				
4. Sediment Deposition	Little or no enlargement of islands or point bars and less than 5% <20% for low-gradient streams) of the bottom affected by sediment deposition.	Some new increase in bar formation, mostly from gravel, sand or fine sediment; 5-30% (20-50% for low-gradient) of the bottom affected; slight deposition in pools.	Moderate deposition of new gravel, sand or fine sediment on old and new bars; 30-50% (50-80% for low-gradient) of the bottom affected; sediment deposits at obstructions, constrictions, and bends; moderate deposition of pools prevalent.	Heavy deposits of fine material, increased bar development; more than 50% (80% for low-gradient) of the bottom changing frequently; pools almost absent due to substantial sediment deposition.				
SCORE	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1 0				
5. Channel Flow Status	Water reaches base of both lower banks, and minimal amount of channel substrate is exposed.	Water fills >75% of the available channel; or <25% of channel substrate is exposed.	Water fills 25-75% of the available channel, and/or riffle substrates are mostly exposed.	Very little water in channel and mostly present as standing pools.				
SCORE	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1 0				

- Rock substrate @ 15m from bar. Silt substrate measured @ 15m - no lotto.
- When washed in net, sand left behind - fair amount
- Filamentous algae found on bank.
- Sandy material on bed after probing through silt
- Silty soils and incised channel limiting riparian zone, including woody cover

WRIGHT WATER ENGINEERS, INC.

2490 West 26th Ave., Suite 100-A

Denver, Colorado 80211

Tel. (303) 480-1700

Subject Channel Sketch, NW 12th St Bridge, Sample Sta 001-R1

Date 9/17/00 Sheet _____ of _____

Proj. No. 961-102.040

Proj. Name City of Lincoln

Des. By RU Ckd. By _____

Banks covered in grass, some emergent grasses

• Flow noticeable but slight

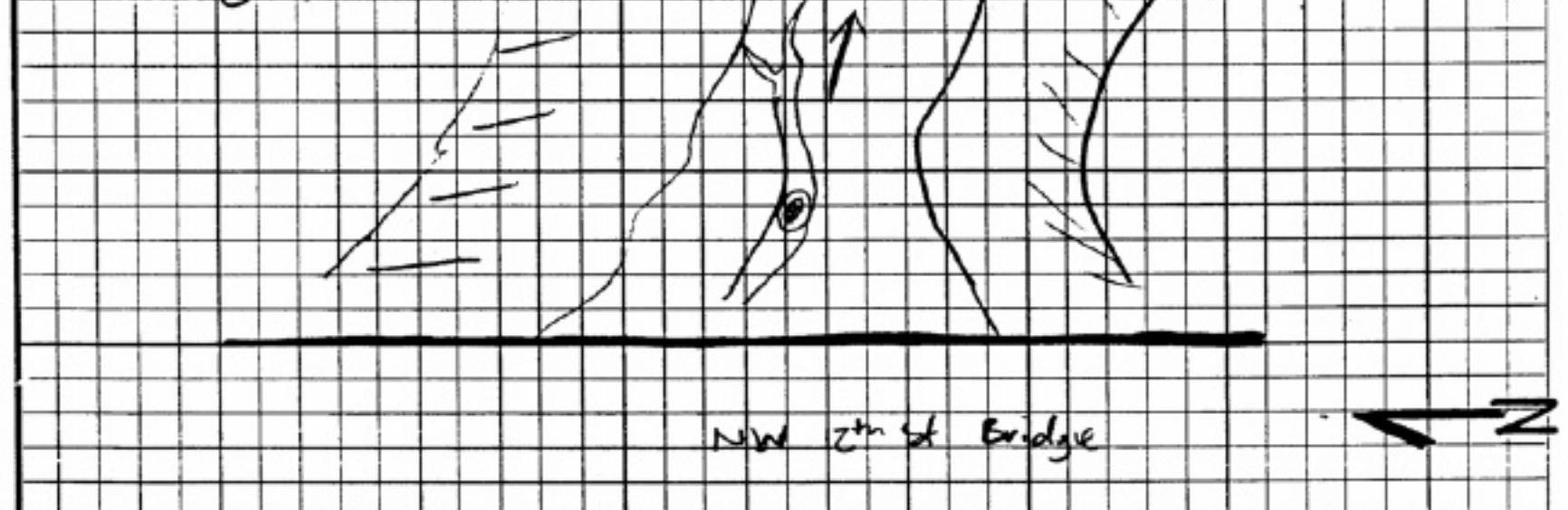
• Channel incised, high flow capabilities. Banks @ 2-3' or less.

• Some erosion visible but more recent, grass-covered.

• High silt content in substrate, some gravel and sand in silt.

• Woody debris in channel & bridge

• Banks @ ~6'



DRAFT REVISION—January 21, 1998

HABITAT ASSESSMENT FIELD DATA SHEET—LOW GRADIENT STREAMS (FRONT)

STREAM NAME	LITTLE SALT CREEK	LOCATION	Waverly Bridge
STATION #	01 RIVERMILE	STREAM CLASS	
LAT	40°55.981'	LONG	96°41.579'
STORET #		AGENCY	
INVESTIGATORS	Ryan Unterreiner, Ed Harricks		
FORM COMPLETED BY	RU	DATE	9/12/00
		TIME	9:45 AM
		REASON FOR SURVEY	Head of Basin

Habitat Parameter	Condition Category							
	Optimal	Suboptimal	Marginal	Poor				
1. Epifaunal Substrate/ Available Cover	Greater than 50% of substrate favorable for epifaunal colonization and fish cover; mix of snags, submerged logs, undercut banks, cobble or other stable habitat and at stage to allow full colonization potential (i.e., logs/snags that are no longer fall and gone transient).	30-50% mix of stable habitat; well-suited for full colonization potential; adequate habitat for maintenance of population presence of additional substrate in the form of newfall, but not yet prepared for colonization (may rate at high end of scale).	10-30% mix of stable habitat; habitat availability less than desirable; substrate frequently disturbed or removed.	Less than 10% stable habitat; lack of habitat is obvious; substrate unstable or lacking.				
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- Substrate firm material overlain by silt
- Substrate material foreign
- Simuliidae, Trichoptera
- Periphytic growth on bottom silt, up to some length of established

LITTLE SALT CREEK BIOASSESSMENT
ORGANISM DATA SHEET - TOP OF WATERSHED STATION - SAMPLE 01

Project Name and Number:
City of Lincoln
Sample ID:
September 2000

SAMPLE NUMBER		ORDER NUMBER		COLLECTOR		COLLECTOR NUMBER		COLLECTOR DATE	
Anthropoda	Insecta	Coleoptera	Hydrophilidae	1					
Anthropoda	Insecta	Odonata	Zygoptera		Corixidae	-			
Anthropoda	Insecta	Collembola			Stenochironomidae	-			
Anthropoda	Insecta	Diptera	Nemestrinidae	1	Phytomyzidae	5			
Anthropoda	Insecta	Diptera	Chironomidae	94	Hydropsychidae	87			
Anthropoda	Insecta	Trichoptera	Convolvulidae	107					
Anthropoda	Insecta	Lepidoptera	Pyralidae	16					
Anthropoda	Oligochaeta	Haplobranchia	Naididae	2					
Gastropoda	Lamellipala	Lymnaeidae	Lymnaeidae	3					
		TOTAL		312					

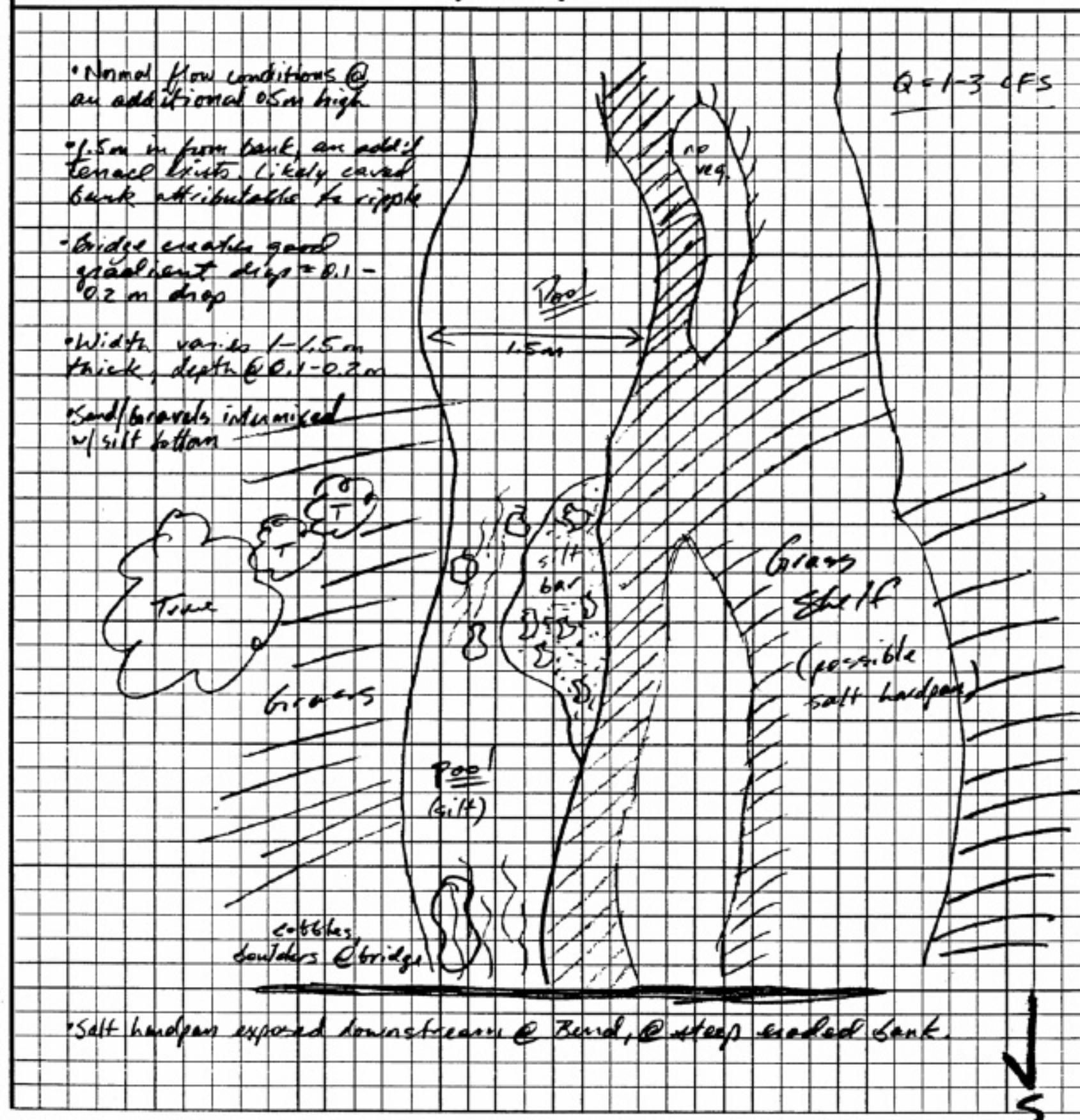
Det by RU
CM by DM

Wright Water Engineers, Inc.
10400

Chryl Lincoln
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WRIGHT WATER ENGINEERS, INC.
2490 West 26th Ave., Suite 100-A
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Tel. (303) 480-1700
Subject Sample 05, Waverly Bridge

Date 9/17/00 Sheet _____ of _____
Proj. No. 961-102-040
Proj. Name City of Lincoln
Des. By RU Ckd. By _____



LITTLE SALT CREEK BIOASSESSMENT
ORGANISM DATA SHEET - DOWNSTREAM STATION - SAMPLE 05

Identifying Scientist: R. Unsermiller
Identification Date: September, 2000
Project Name and Number:
City of Lincoln
Station Number/Sample I.D.: Sample 05
Sample Date: September, 2000

Order	Insecta	Odonata	Zygoptera	Coenagrionidae	15	
		Diptera		Psychodidae	1	
		Diptera		Chironomidae	47	
		Hemiptera		Ceratidae	10	
		Lepidoptera		Pnyxidae	52	
		Oligochaeta		Holotrichidae	2	
				TOTAL	129	